

WHAT IS CLAIMED IS:

1. A computer system for converting a colored picture or designs composed of color and non-colored regions distributed throughout the picture into a line drawing in which each of said regions is delineated to define a zone and reproducing the line drawing on a substrate; said system comprising:

- 1) a computer provided with a video display terminal;
- 2) a printer coupled to the display terminal to print out on a sheet an image displayed on the terminal;
- 3) means to feed into the computer a digital image of the picture or design to be converted;
- 4) software associated with the computer to process said digital image to produce said line drawing which is displayed on said terminal and printed on said sheet whereby a user of the system, by coloring in said zones, can recreate a colored picture or design; and
- 5) further means for transferring said digital image, or printed sheet to a substrate.

2. A computer as set forth in claim 1 in which a collection of colored and non-colored picture and designs are digitally stored in software, the user selecting for conversion one of said pictures for preparation of a line drawing for transfer to a substrate.

3. A computer system as claimed in claim 1 wherein said line drawing is converted to a stencil whereby at least some of said line drawing can be reproduced onto various substrate.

4. The computer system as claimed in claim 3 wherein said substrate is selected from the group of paper, cloth, glass, plastics, plastic films, wood, metal or combination thereof.

5. A computer system as set forth in claim 1, further including means to identify each zone with a symbol that indicates the color to be applied thereto.

6. A computer as set forth in claim 1, in which the software to process the digital image includes a color separator to separate the color regions of which the picture is composed into partial images having a common color.

7. A computer as set forth in claim 5, in which the common color is an elementary color in the color spectrum or a color similar thereto.

8. A computer as set forth in claim 6, further including a line filter to delineate the separated color regions.

9. A method for producing an in-line drawing of a picture or design and reproducing the in-line drawing on a substrate material, which method comprises the steps of:

1) feeding into a computer of a computer system comprised of:

A. a computer provided with a video display terminal;

B. a printer coupled to the display terminal to print out on a sheet an image displayed on the terminal;

C. software associated with the computer to process the digital image to produce the line drawing which is displayed on the terminal.

- 2) printing the line drawing which is displayed on the terminal, and
- 3) transferring the printed line drawing to a substrate material.

10. The method of claim 9 wherein the substrate material is a T-shirt.

11. The method of claim 9 wherein the substrate material is a transparency.